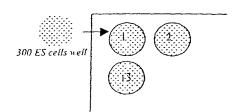
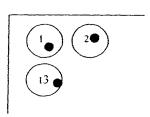
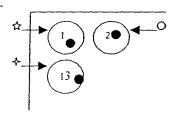
Day 0 R1 ES cells (300 cells/well) in differentiating medium are plated on 96 well non-coated plates



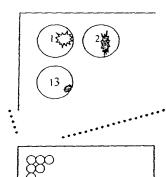
Formation of embryo-like aggregate (7 d)



Day 7 Add chemical compounds (#1 to #96) into each well.



Induce further differentiation (7~14 d)



Day 14 Extract RNA on the plate, RT-PCR on the plate

Day 21

Evaluate the effects of the drugs (#1-96) on mRNA expression of tissue-specific genes (e.g. albumin mRNA for hepatocyte differentiation).

RNA extraction/RT-PCR on the plate

FIG. 1

7 PT 7 WH 1 1 H

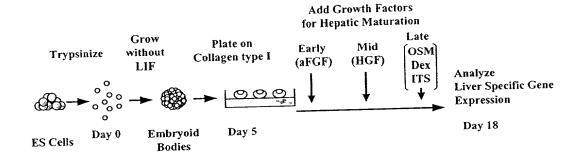


FIG. 2

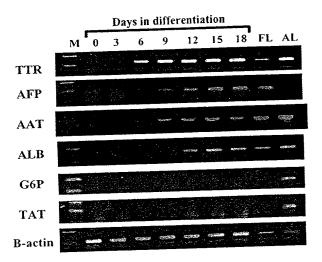


FIG. 3

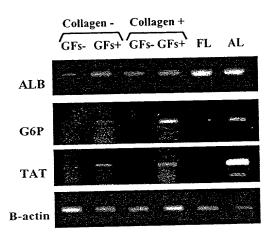


FIG. 4

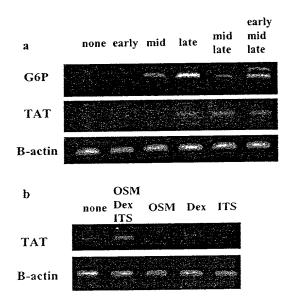


FIG. 5

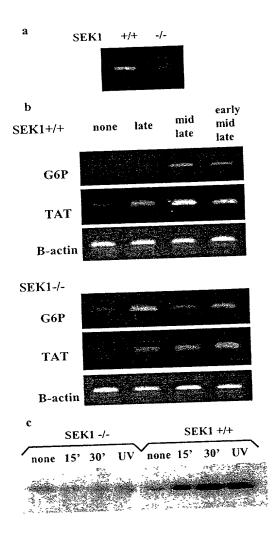
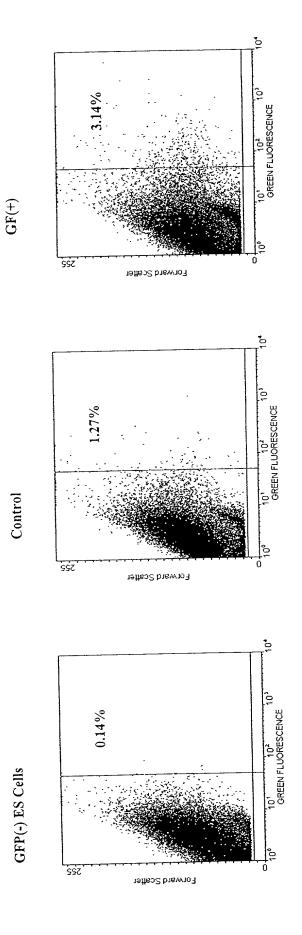


FIG. 6



IG.